ARTIFACT SHEET

	rtifact number below. Artifact number is application number +					
	type code (see list below) + sequential letter (A, B, C). The first					
artifact folder for an artifact type receives the letter A, the second B, etc						
Examples: 59123456PA, 59123456PB, 59123456ZA, 59123456ZB						
	10/004472 ZA					
Indicate quantity of a single type of artifact received but not scanned. Create						
individual artifact folder/box and artifact number for each Artifact Type.						
	CD(s) containing:					
	computer program listing					
	Doc Code: Computer Artifact Type Code: P					
	pages of specification					
	and/or sequence listing					
	and/or table					
	Doc Code: Artifact Artifact Type Code: S					
	content unspecified or combined					
	Doc Code: Artifact Artifact Type Code: U					
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	Doc Code: Artifact Artifact Type Code: C					
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	Microfilm(s)					
	Doc Code: Artifact Artifact Type Code: F					
	Video tape(s)					
	Doc Code: Artifact Type Code: V					
	Model(s)					
	Doc Code: Artifact Type Code: M					
	Bound Document(s)					
	Doc Code: Artifact Type Code: B					
	Confidential Information Disclosure Statement or Other Documents					
	marked Proprietary, Trade Secrets, Subject to Protective Order,					
	Material Submitted under MPEP 724.02, etc. Doc Code: Artifact Artifact Type Code X					
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	Other, description: US GRANTS					
X	Doc Code: Artifact Artifact Type Code: Z					

The United States of America



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Has received an application for a patent for mew and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America for the term set forth below, subject to the payment of maintenance fees as provided by law.

If this application was filed prior to June 8, 1995, the term of this patent is the longer of seventeen years from the date of grant of this patent or twenty years from the earliest effective U.S. filing date of the application, subject to any statutory extension.

If this application was filed on or after June 8, 1995, the term of this patent is twenty years from the U.S. filing date, subject to any statutory extension. If the application contains a specific reference to an earlier filed application or applications under 35 U.S.C. 120, 121 or 365(c), the term of the patent is twenty years from the date on which the earliest application was filed, subject to any statutory extension.

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Commissioner of Patents and Trademarks

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NOTICE

If the application for this patent was filed on or after December 12, 1980, maintenance fees are due three years and six months, seven years and six months, and eleven years and six months after the date of this grant, or within a grace period of six months thereafter upon payment of a surcharge as provided by law. The amount, number and timing of the maintenance fees required may be changed by law or regulation. Unless payment of the applicable maintenance fee is received in the Patent and Trademark Office on or before the date the fee is due or within a grace period of six months thereafter, the patent will expire as of the end of such grace period.



US006004582A

United States Patent [19]

Faour et al.

4,014,334

4.335.099

4,576,604

4,673,405

4,801,461

4,810,502

5,035,897

[11] Patent Number:

6,004,582

[45] Date of Patent:

Dec. 21, 1999

[54]	MULTI-LAYERED OSMOTIC DEVICE				
[75]	Inventors: Joaquina Faour: Jorge Mayorga, both of Buenos Aires, Argentina				
[73]	Assignee: Laboratorios Phoenix U.S.A, Inc., Buenos Aires, Argentina				
[21]	Appl. No.: 09/086,871				
[22]	Filed: May 29, 1998				
[51]	Int. Cl. ⁶ A61K 9/22; A61K 9/24				
[52]					
[]	424/474; 424/476; 424/475; 424/479; 424/482				
f581	Field of Search				
	424/473, 476, 479, 482, 474, 475				
[56]	References Cited				
	U.S. PATENT DOCUMENTS				
	,				

3/1977 Theeuwes et al. 128/260

6/1982 Funakoshi et al. 424/32

3/1986 Guittard et al. 604/890

6/1987 Guittard et al. 604/890

1/1989 Hamel et al. 424/467

3/1989 Ayer et al. 424/473

7/1991 Ayer et al. 424/473

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Strauss, Hauer & Feld, L.L.P.

[57] ABSTRACT

The present invention provides a simple and improved multi-layered osmotic device (1) that is capable of delivering a first active agent in an outer lamina (2) to one environment of use and a second active agent in the core (5) to another environment of use. Particular embodiments of the invention provide osmotic devices in which the first and second active agents are similar or dissimilar. An erodible polymer coat (3) between an internal semipermeable membrane (4) and a second active agent-containing external coat (2) comprises poly(vinylpyrrolidone)-(vinyl acetate) copolymer. This particular erodible polymer results in an improved multi-layered osmotic device possessing advantages over related devices known in the art. The active agent in the core (5) is delivered through a pore (6) containing an erodible plug (7). The osmotic device (1) can be coated by a final finish coat (8).

23 Claims, 1 Drawing Sheet

